



MI Flu Focus

Influenza Surveillance Updates Bureaus of Epidemiology and Laboratories



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May 20, 2015
Vol. 12; No. 18

MI's Current Influenza

Activity Level:

Local

Updates of Interest:

[Nebraska](#) is the 4th state to declare a state of emergency due to avian influenza; canine influenza confirmed in [Michigan](#) in Kent, Macomb counties.

Influenza Surveillance Report for the Week Ending May 9, 2015

Michigan Disease Surveillance System

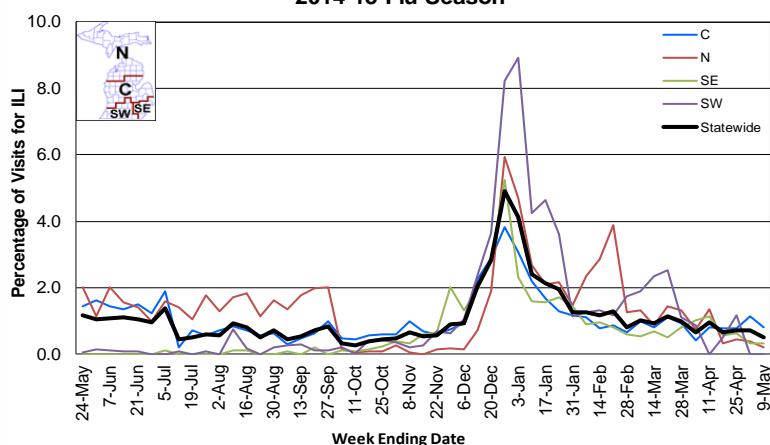
MDSS influenza data indicated that compared to levels from the previous week, aggregate and individual reports decreased slightly. Aggregate reports are lower and individual reports are higher than levels seen during the same time period last year.

Emergency Department Surveillance

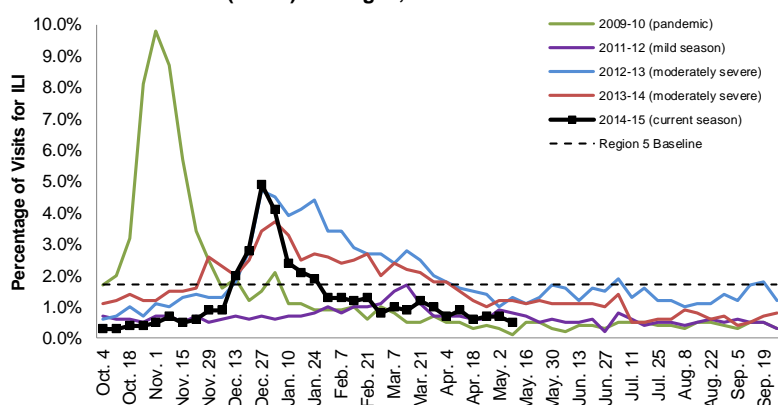
Compared to levels from the week prior, emergency department visits from constitutional complaints remained the same while respiratory complaints decreased slightly. Levels of constitutional and respiratory complaints were slightly higher than levels seen during the same time period last year.

- 1 constitutional alert (1C)
- 4 respiratory alerts (4C)

Percentage of Visits for Influenza-like Illness (ILI)
Reported by Sentinel Providers, Statewide and Regions
2014-15 Flu Season



Percentage of Visits for Influenza-like Illness (ILI) Reported by
the US Outpatient Influenza-like Illness Surveillance Network
(ILINet): Michigan, Select Seasons



Sentinel Provider Surveillance

The proportion of visits due to influenza-like illness (ILI) decreased to 0.5% overall; this is below the regional baseline (1.7%). A total of 38 patient visits due to ILI were reported out of 7,482 office visits. Please note: These rates may change as additional reports are received.

Number of Reports by Region (22 total):

- C (7)
- N (3)
- SE (9)
- SW (3)

Become a Sentinel Provider!

As part of pandemic influenza surveillance, CDC and MDHHS highly encourage year-round participation from all sentinel providers. New practices are encouraged to join the sentinel surveillance program today! Contact Stefanie DeVita at devitas1@michigan.gov for more information.

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Hospital Surveillance

The CDC Influenza Hospitalization Surveillance Project provides population-based rates of hospitalization due to severe influenza illness through active surveillance and chart review of lab-confirmed cases, starting on October 1, 2014 and ending April 30, 2015, for Clinton, Eaton, Genesee, and Ingham counties. The cumulative total during the reporting period was 88 pediatric hospitalizations and 374 adult hospitalizations. Based on these counts, there have been 45.6 pediatric influenza hospitalizations per 100,000 population and 54.6 adult influenza hospitalizations per 100,000 population within the catchment area.

The MDHHS Influenza Sentinel Hospital Network monitors influenza hospitalizations reported voluntarily by hospitals statewide, and 5 hospitals (SE,SW) reported. Results are listed in the table below. Additional hospitals are welcome to join; please contact Seth Eckel at eckels1@michigan.gov.

Age Group	New Flu Hospitalizations Reported	Total 2014-15 Flu Hospitalizations to Date
0-4 years	0	31 (1N, 21C, 4SE, 5SW)
5-17 years	0	33 (28C, 5SE)
18-49 years	1 (SW)	68 (2N, 12C, 49SE, 5SW)
50-64 years	1 (SE)	129 (3N, 14C, 98SE, 14SW)
65 years & older	2 (SE)	526 (20N, 19C, 432SE, 55SW)
Total	4 (3SE, 1SW)	787 (26N, 94C, 588SE, 79SW)

Laboratory Surveillance

MDHHS Bureau of Laboratories reported 2 new positive influenza results: 2 influenza B. A total of 554 positive influenza results have been reported for the 2014-15 season. Influenza results for the 2014-15 season are reported in the table below.

Respiratory Virus	# Positive Respiratory Virus Results by Region				Total	# Specimens Antigenically Characterized	# Tested for Antiviral Resistance
	C	N	SE	SW			# Resistant / Total # Tested
2009 A/H1N1pdm				1	1		
Influenza A/H3	113	33	97	247	490	15* (3 A/Texas/50/2012-like**, 12 A/Switzerland/9715293/2013-like)	0 / 146
Influenza B	20	6	17	18	61	59 (44 B/Yamagata lineage [3* B/Massachusetts/02/2012-like [†]], 12 B/Victoria lineage, 3 inconclusive)	
Influenza A, unsubtypeable	1			1	2		

*Specimens antigenically characterized by CDC; **A/Texas/50/2012 (H3N2) virus is the H3N2 component of the 2014-15 Northern Hemisphere flu vaccine, A/Switzerland/9715293/2013-like is an antigenic variant of the current vaccine virus; [†]B/Massachusetts/02/2012 virus is the B/Yamagata component of the 2014-15 Northern Hemisphere trivalent and quadrivalent flu vaccines.

In addition, 11 sentinel clinical labs (3SE,2SW,6C) reported influenza results. Three labs (SE,C) reported sporadic influenza A activity. Ten labs (SE,SW,C) reported ongoing influenza B activity at steady or further declining levels. Seven labs (SE,SW,C) reported only influenza B activity. Four labs (SE,SW,C) reported low or slightly elevated Parainfluenza activity. Seven labs (SE,SW,C) reported low or sporadic RSV activity. Three labs (SE,SW,C) reported low Adenovirus activity. Two labs (SE,SW) reported low hMPV activity. Testing volumes are still elevated at most sites but several are now in the low range.

Influenza Congregate Settings Outbreaks

There were no new respiratory facility outbreaks reported. There have been a total of 150 respiratory facility outbreaks reported to MDHHS for the 2014-15 season. Respiratory facility outbreaks are listed in the table below by facility type and surveillance region.

Facility Type	C	N	SE	SW	Total
Adult Care Facility		1	2		3
Long-Term Care / Assisted Living Facility	28	12	34	36	110
K-12 School	1		2		3
Daycare				1	1
Unknown / Investigation Pending	16		4	9	29
Healthcare Facility				3	3
Correctional Facility				1	1
Total	45	13	42	50	150

Influenza-associated Pediatric Mortality

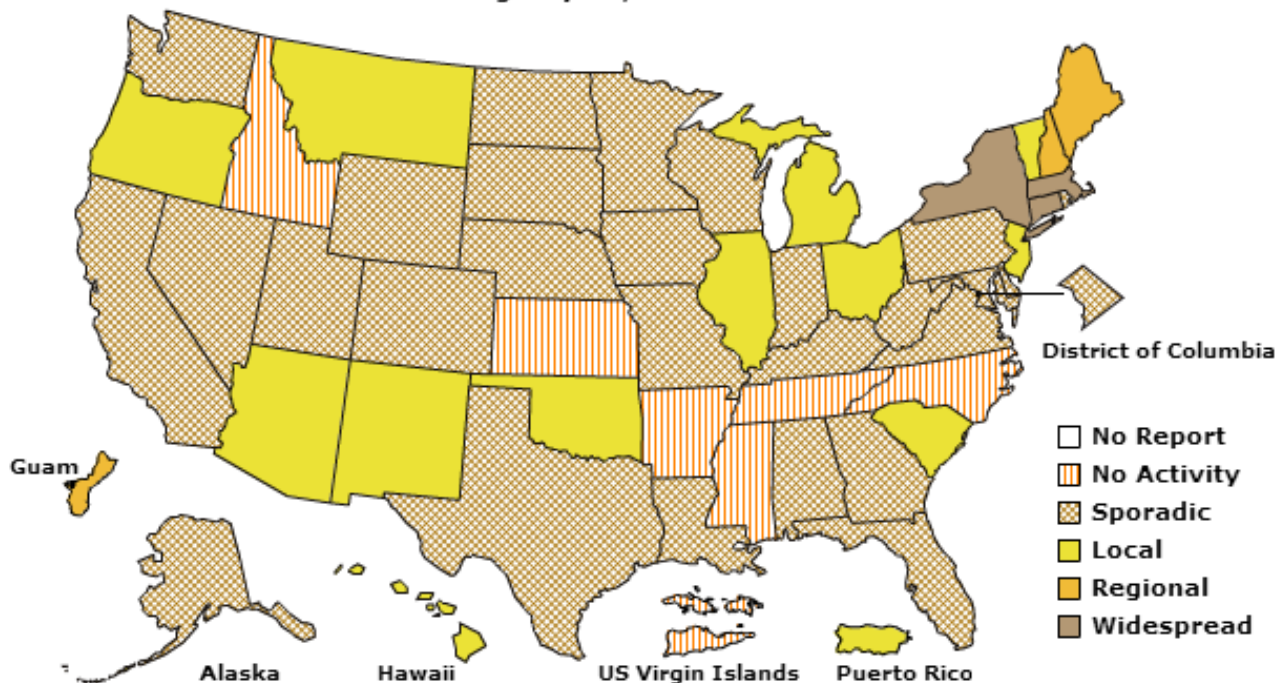
No new influenza-associated pediatric deaths were reported to MDHHS. Two influenza-associated pediatric deaths (1SE, 1SW) have been reported to MDHHS for the 2014-15 season.

National: Influenza activity continued to decrease in the United States, with 1.2% of outpatient visits due to influenza-like illness. Influenza B viruses were 93% of all positive flu specimens reported. The Midwest region saw the highest percentage of respiratory specimens positive for flu at 9.4%. Two influenza-associated pediatric deaths were reported, bringing the 2014-15 total to 138. Additional information is in the weekly FluView reports available at: www.cdc.gov/flu/weekly/.

International: Globally, influenza activity was low. In the Northern Hemisphere, flu activity was nearing inter-seasonal levels. In the Southern Hemisphere, influenza activity remained low. Summary information is available online at www.who.int/influenza/surveillance_monitoring/updates/latest_update_GIP_surveillance/en/.

A Weekly Influenza Surveillance Report Prepared by the Influenza Division Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists*

Week Ending May 09, 2015- Week 18





AVIAN INFLUENZA NEWS IN NORTH AMERICA

- USDA: Birds affected nearly [39 million](#)
- [Iowa reports more outbreaks, big economic toll in Minnesota, H5N2 vaccine to be tested](#)
- [Minnesota reports more H5N2 as fairs plan poultry bans](#)
- [High-path avian flu hits 4 more Midwestern states](#)
- Nebraska Department of Agriculture: [Department confirms 2nd case of highly pathogenic avian influenza](#)
 - Nebraska Governor is 4th to declare state of emergency
- [USDA to study rodents as part of avian influenza investigation](#)
- [Avian flu vaccine development, Kansas State University](#)

NATIONAL FLU SUMMIT AWARDS

The National Adult and Influenza Immunization Summit ([NAIIS](#)) is proud to [announce](#) the recipients of its [2015 Immunization Excellence Awards](#). Congratulations to the Michigan Department of Health and Human Services and [Alana's Foundation](#) for winning Honorable Mention in the Laura Scott 2014-15 Outstanding Influenza Season Activities category!!! MDHHS and Alana's Foundation won for their [2014-15 College and University Flu Vaccination Challenge](#). You can read about all the immunization award categories and winners [here](#).

AVIAN INFLUENZA A(H5N1) NEWS ARTICLES

- WHO: [Egypt upsurge in H5N1 human and poultry cases but no change in transmission pattern of infection](#)

MAY ISSUE OF NEEDLE TIPS NEWSLETTER

The [May 2015](#) issue of [Needle Tips](#), the Immunization Action Coalition's newsletter, has been posted online. This issue contains information on new Advisory Committee on Immunization Practices (ACIP) recommendations, CDC's Ask the Experts, immunization schedules, and other helpful immunization resources.

CANINE INFLUENZA NEWS IN THE U.S.

- MLive: [2 cases of canine flu confirmed in Kent County, 1 in Macomb County](#)
- [Tests confirm canine flu in Georgia linked to Chicago strain](#)
- [Dog flu hits Central Ohio](#)
- [Newark dog tests positive for H3N2 canine influenza](#)

OTHER INFLUENZA-RELATED NEWS

- [Bird flu epidemic hits 35 countries since early 2014](#)
- [Taiwan, Turkey, India battle avian flu; OIE calls for vigilance](#)
- WHO: [Human infection with avian influenza A\(H7N9\) virus - China](#)
- [Protein Sciences New York facility receives FDA licensure to manufacture Flublok[®]](#)
- CDC: [Timeline of CDC's #VaxWithMe social media campaign](#)

MDHHS FALL IMMUNIZATION CONFERENCES

The dates and locations of the 2015 MDHHS Fall Regional Immunization Conferences have been [posted](#). This year's conferences will be held at:

-Marquette (Oct. 13)	-Flint (Nov. 6)
-Gaylord (Oct. 15)	-Kalamazoo (Nov. 17)
-Lansing (Nov. 3)	-Dearborn (Nov. 19)
-Grand Rapids (Nov. 5)	-Troy (Nov. 20)

More information on the Immunization Conferences can be found at www.michigan.gov/immunize -> Health Care Professionals/Providers -> Provider Education Resources.

FLU WEBSITES

www.michigan.gov/flu
www.cdc.gov/flu
www.flu.gov
<http://vaccine.healthmap.org/>

Archived editions of FluBytes are available [here](#) and MI FluFocus archives are [here](#).

For questions or to be added to the distribution list, please contact Stefanie DeVita at devitas1@michigan.gov.

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